

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Boldogh et al.

Group Art Unit: 1617

Serial No.: 10/691,330

Examiner: Unassigned

Filed: October 22, 2003

Docket No.: 265.00390101

Confirmation No.: 1384

Title: **USE OF COLOSTRININ, CONSTITUENT PEPTIDES THEREOF, AND ANALOGS THEREOF
AS INHIBITORS OF APOPTOSIS AND OTHER CELLULAR DAMAGE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

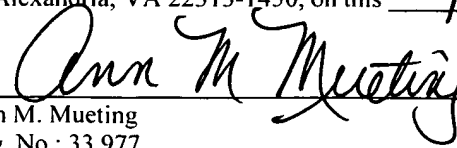
- ☒ An itemized return postcard.
☐ A Petition for Extension of Time for ___ month(s) and a check in the amount of \$___ for the required fee.
☒ An Information Disclosure Statement (2 pgs); copies of 1 applications; 1449 forms (13 pgs); and copies of 147 documents cited on the 1449 forms.
___ A check in the amount of \$___, for ___.
___ A certified copy of a ___ application, Serial No. ___, filed ___, the right of priority of which is claimed under 35 U.S.C. §119.
___ Other: _____
___ Amendment ___ No Additional fee is required. ___ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$18 =	
Independent Claims				x \$86 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$290 Here →					
Total Additional Claim Fees Required					

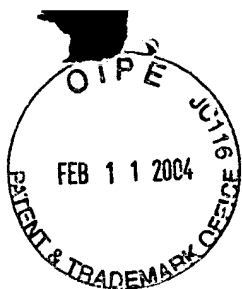
Please consider this a **PETITION FOR EXTENSION OF TIME** for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

CERTIFICATE UNDER 37 C.F.R. §1.8: The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 9 day of February, 2004.

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(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)



PATENT
Docket No.265.00390101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Boldogh et al.)	Group Art Unit:	1617
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Serial No.:	10/691,330)	Examiner:	Unassigned
Confirmation No.:	1384)		
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For:	USE OF COLOSTRININ, CONSTITUENT PEPTIDES THEREOF, AND ANALOGS THEREOF AS INHIBITORS OF APOPTOSIS AND OTHER CELLULAR DAMAGE			

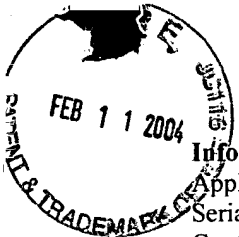
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. As this patent application was filed after June 30, 2003, copies of the U.S. patents and U.S. patent application publications listed on the attached 1449 form(s) have not been submitted). Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to the following pending U.S. Applications, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced in the pending U.S. applications or in their file wrappers. A copy of each of the below-listed pending U.S. Patent Applications is provided herewith.

**Information Disclosure Statement**

Page 2 of 2

Applicant(s): Boldogh et al.

Serial No.: 10/691,330

Confirmation No.: 1384

Filed: October 22, 2003

For: USE OF COLOSTRININ, CONSTITUENT PEPTIDES THEREOF, AND ANALOGS THEREOF AS INHIBITORS OF APOPTOSIS AND OTHER CELLULAR DAMAGE

List of Pending Non-Published U.S. Patent Applications

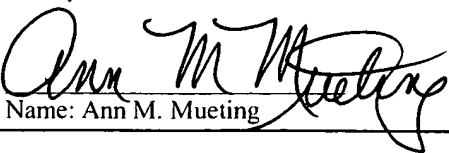
Applicant(s)	Application Number	Filing Date	Serial No. of Provisional Application to which listed Application claims priority
Boldogh et al.	10/691,157	October 22, 2003	60/420,369

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

CERTIFICATE UNDER 37 C.F.R. 1.8:

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 9 day of February, 2004.


Name: Ann M. Mueting

Date

February 9, 2004

Respectfully submitted for
Boldogh et al.

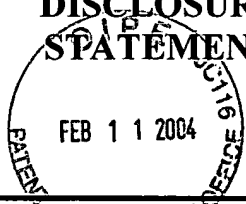
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	Information Disclosure Statement mailed: February <u>9</u> , 2004	

U.S. PATENT DOCUMENTS

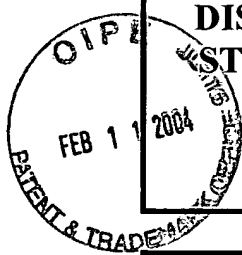
Examiner Initial	Copies Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		4,938,949	07/03/90	Borch			
		5,595,887	01/21/97	Coolidge			
		6,410,058	06/25/02	Gohlke et al.			
		6,500,798	12/31/02	Stanton et al.			
		US 2003/0091606	05/15/03	Stanton et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Copies Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	X	WO 95/30686	11/16/95	PCT				
	X	WO 98/14473	04/09/98	PCT				
	X	WO 99/65329	12/23/99	PCT				
	X	WO 00/75173	12/14/00	PCT				
	X	WO 01/11937	02/22/01	PCT				
	X	WO 01/12650	02/22/01	PCT				
	X	WO 01/12651	02/22/01	PCT				
	X	WO 02/13850	02/21/02	PCT				
	X	WO 02/13849	02/21/02	PCT				
	X	WO 02/13851	02/21/02	PCT				
	X	JP 06/041191	02/15/94	Japan (English Abstract Included)				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

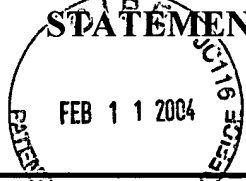
EXAMINER	Date Considered
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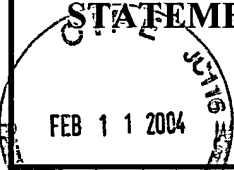
Examiner Initial	Copies Enclosed	Document Description
	X	Altin et al., "Differential Induction of Primary-response (TIS) Genes in PC12 Pheochromocytoma Cells and the Unresponsive Variant PC12nnr5," <i>Journal of Biological Chemistry</i> , 25 March 1991;266(9): 5401-5406.
	X	Anneren et al., "GTK, a Src-related Tyrosine Kinase, Induces Nerve Growth Factor-independent Neurite Outgrowth in PC 12 Cells through Activation of the Rap1 Pathway," <i>Journal of Biological Chemistry</i> , 15 September 2000;275(37): 29153-29161.
	X	Babbitt et al., <i>The Vanderbilt Rubber Handbook</i> , R.T. Vanderbilt Company, Inc., Norwalk, CT., 1978: 344-397.
	X	Bagchi et al., "Comparative in vitro and in vivo protein kinase C activation by selected pesticides and transition metal salts," <i>Toxicology Letters</i> , 1997;91: 31-37.
	X	Bespalov et al., "Fabs specific for 8-oxoguanine: control of DNA binding," <i>J Mol Biol.</i> , 1999 Nov 12;293(5): 1085-95.
	X	Bikfalvi et al., "Biological Roles of Fibroblast Growth Factor-2," <i>Endocrine Reviews</i> , February 1997;18(1): 26-45.
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	X	"Blast," National Institutes of Health [online] Bethesda, M.D. Retrieved from the Internet on May 14, 2001: <URL:http://www.ncbi.nlm.nih.gov/gorf/b12.html>; 1 pg.
	X	Boldogh et al., "Modulation of 4HNE-Mediated Signaling by proline-rich peptides from Ovine Colostrum," <i>J Mol Neuroscience</i> , May 2003;20(2): 125-134.
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	X	Buescher et al., "Colostrum antioxidants: separation and characterization of two activities in human colostrum," <i>J Pediatr Gastroenterol Nutr</i> , 1992 Jan;14(1): 47-56.
	X	Buettner, G.R., "The pecking order of free radicals and antioxidants: lipid peroxidation, alpha-tocopherol, and ascorbate," <i>Arch Biochem Biophys</i> , 1993;300: 535-543.
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	X	Cosgaya et al., "Neuronal differentiation of PC12 cells induced by engrailed homeodomain is DNA-binding specific and independent of MAP kinases," <i>Journal of Cell Science</i> 1998; 111: 2377-2384.
	X	Cui et al., "Effect of Nucleoside Analogs on Neurite Regeneration and Mitochondrial DNA Synthesis in PC-12 Cells," <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1997;280(3): 1228-1234.
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	X	Davies et al., "Photo-oxidation of proteins and its role in cataractogenesis," <i>J. Photochem. Photobiol B</i> , 2001;63: 114-125.

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	X	Davis et al., "Cellular thiols and reactive oxygen species in drug-induced apoptosis," <i>J. Pharmacol Exp Ther</i> , 2001;296: 1-6.
	X	DeJongh et al., "Estimation of Systemic Toxicity of Acrylamide by Integration of <i>in vitro</i> Toxicity Data with Kinetic Simulations," <i>Toxicology and Applied Pharmacology</i> , 1999;158: 261-268.
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	X	Doye et al., "Phosphorylation of Stathmin and Other Proteins Related to Nerve Growth Factor-induced Regulation of PC12 Cells," <i>Journal of Biological Chemistry</i> , 15 July 1990;265(20): 11650-11655.
	X	Elgert, "Immunology: Understanding the Immune System," Text (1996) Wiley-Liss 1 st Ed. pp. 24-26 and 199-217.
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	X	Evan et al., "A matter of life and cell death," <i>Science</i> , 1998; 281: 1317-1322.
	X	Feng et al., "NF- κ B/Rel Proteins are Required for Neuronal Differentiation of SH-SY5Y Neuroblastoma Cells," <i>Journal of Biological Chemistry</i> , 22 October 1999;274(43): 30341-30344.
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	X	Fillmore et al., "Differentiation of PC12 cells with nerve growth factor is associated with induction of transin synthesis and release," <i>J Neurosci Res</i> . 1992 Apr;31(4):662-9.
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	X	Gabbita et al., "Increased nuclear DNA oxidation in the brain in Alzheimer's disease," <i>J Neurochem</i> . 1998 Nov;71(5):2034-40.

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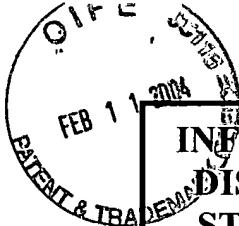
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	X	Gabbita et al., "Decrease in peptide methionine sulfoxide reductase in Alzheimer's disease brain," <i>J Neurochem.</i> 1999 Oct;73(4):1660-6.
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	X	Han et al., "Implication of a small GTPase Rac1 in the activation of c-Jun-N-terminal kinase and heat shock factor in response to heat shock," <i>J Biol Chem</i> , 2001; 276:1889-1895.
	X	Hensley et al., "Brain regional correspondence between Alzheimer's disease histopathology and biomarkers of protein oxidation," <i>J Neurochem.</i> 1995 Nov; 65(5):2146-56.
	X	Hughes et al., "Modulation of immune responses by anabolic androgenic steroids," <i>Int J Immunopharmacol.</i> 1995 Nov;17(11):857-63.
	X	Hughes et al., "Mediation of nerve growth factor-driven cell cycle arrest in PC12 cells by p53. Simultaneous differentiation and proliferation subsequent to p53 functional inactivation," <i>J Biol Chem</i> , 2000;275: 37829-37837.
	X	Inglot et al., "Colostrinine: a proline-rich polypeptide from ovine colostrum is a modest cytokine inducer in human leukocytes," <i>Arch Immunol Ther Exp (Warsz).</i> 1996;44(4):215-24.
	X	Inglot et al., "Colostrinin for treatment of Alzheimer's disease," <i>European Cytokine Network.</i> 1996 Sept;7(3):458(abstract 51).

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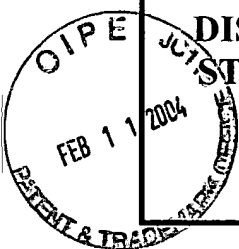
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	X	Inglot et al., "Tumor-associated antigens are cytokine inducers and hyporeactivity factors to the immune system," <i>Biotherapy</i> . 1998;11(1):27-37.
	X	Janusz et al., "Isolation and characterization of a proline-rich polypeptide from ovine colostrum," <i>FEBS Lett.</i> 1974 Dec 15;49(2):276-9.
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	X	Kandel et al., "Principles of Neural Science," 4 th Ed.; 2002: 67-81,
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	X	Kim et al., "Simultaneous differentiation and quantitation of erythroblasts and white blood cells on a high throughput clinical haematology analyser," <i>Clin Lab Haematol.</i> 1998 Feb;20(1):21-9.
	X	Kimball, John W., "White Blood Cells (leukocytes)," <i>Kimball's Biology Papers</i> [online]. [retrieved on 2002 December 2]. Retrieved from the internet: < http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/B/Blood.html >; 2 pgs.
	X	Kong et al., "Signal transduction events elicited by natural products: a role of MAPK and caspase pathways in homeostatic response and induction of apoptosis," <i>Arch Pharm Res</i> , 2000;23: 1-16.

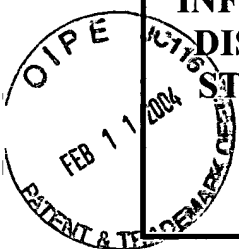
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	X	Kooy et al., "Oxidation of 2',7'-dichlorofluorescein by peroxynitrite," <i>Free Radic Res.</i> 1997 Sep;27(3):245-54.
	X	Kruman et al., "Evidence that 4-hydroxynonenal mediates oxidative stress-induced neuronal apoptosis," <i>J Neurosci</i> , 1997;17:5089-5100.
	X	Kruzel et al., "Towards an Understanding of Biological Role of Colostrinin Peptides," <i>Journal of Molecular Neuroscience</i> , December 2001;17(3): 379-389.
	X	Lachyankar et al., "A Role for Nuclear PTEN in Neuronal Differentiation," <i>Journal of Neuroscience</i> , 15 February 2000;20(4): 1404-1413.
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	X	LeBel et al., "Evaluation of the probe 2',7'-dichlorofluorescein as an indicator of reactive oxygen species formation and oxidative stress," <i>Chem Res Toxicol.</i> 1992 Mar-Apr;5(2):227-31.
	X	Leonarduzzi et al., "Lipid oxidation products in cell signaling," <i>Free Radic Biol Med</i> , 2000;28: 1370-1378.
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	X	Leszek et al., "Colostrinin® proline-rich polypeptide complex from ovine colostrum- a long-term study of its efficacy in Alzheimer's disease," <i>Med Sci Monit.</i> , 2002;8(10): PI93-PI96.
	X	Levi et al., "The mode of action of nerve growth factor in PC12 cells," <i>Mol Neurobiol.</i> 1988 Fall;2(3):201-26.
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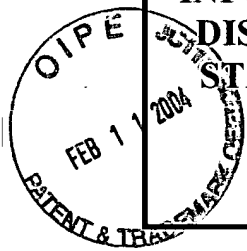
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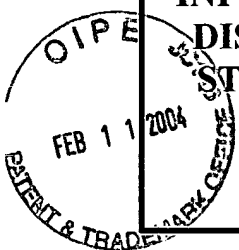
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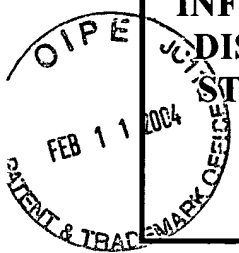
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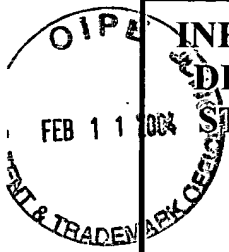
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